

Fingerprint & Keypad Lock LA9 series

USER MANUAL



- Thank you for choosing ADEL—
a professional manufacturer of
fingerprint lock.
- Please read this manual carefully
before operation.
- Please keep this manual for later
reference.

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1.Introduction

1.1 Feature

1.1.1 Model number

Model	LA9-1	LA9-2
Picture		
Color	Satin Chrome	Satin Chrome

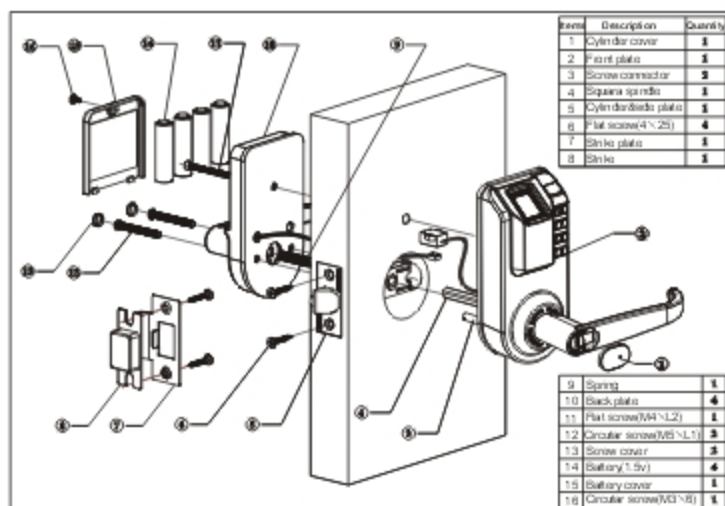
1.1.2 Main features

- Adopts optical fingerprint sensor, CMOS chip. Fingerprint can't be duplicated.
- Cast-steel structure, suitable for standard door-lock cavity of internal doors.
- Stainless steel single latch, easy to install.
- Three way to unlock: Fingerprint + PIN , PIN or mechanical key.
- Capacity: Maximum 30 fingerprint templates.
- Keypad combines 4 digits: 0, 1, 2, 3.
- Fingerprint and code can be programmed directly on the lock. No need any computer.

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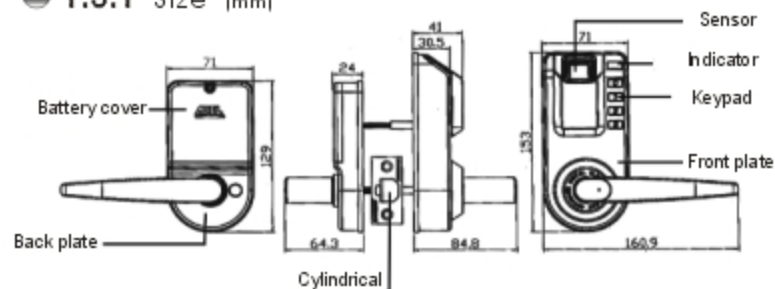
- With the sensor light and buzzer sound indicators
- Mechanical key used in emergency.
- Powered by 4 AA alkaline batteries with low voltage alert function
- Stand alone, suitable for office, meeting room, residential, villa, etc.

1.2 Structure & Components



1.3 Size & Weight

1.3.1 Size (mm)



1.3.2 Weight

Parts	N.W. (kg)
Front plate	0.67
Back plate	0.66
Cylinders	0.12 x 2
Accessories	0.5
Total	2.07

1.4 Accessories

Mechanical key (2pc)	Strike (1pc)	Screwcover (2pc)
Square spindle (1pc)	Strike plate (1pc)	Pan screw M4 x L2 (1pc)
Tapping screw (4pc)	Screw connector A(2pc) B(2pc)	Fixing screw M5 x L5 (2pc)
Hexagonal screwdriver (1pc)	Cylinder cover opener (1pc)	

1.5 Technical parameters

No.	Item	Technical parameters
1	Fingerprint sensor	Optical sensor
2	Sensor resolution	500 dpi
3	Antistrike ability of sensor surface	Remain good condition after being jabbed with a 4H pencil at a 20cm's distance.
4	Authentication speed	<1 second
5	Authentication methods	1:N or 1:1
6	FRR	≤ 1%
7	FAR	≤ 0.0001%
8	Angle for putting finger	± 45°
9	Fingerprint scanning	twice to get one fingerprint template
10	Fingerprint template saved	all enrolled fingerprint template will be saved while replacing the batteries
11	User capacity	30 max
12	Light jam	Sunlight resistable
13	Sensor surface	Optical glass with PVD coated
14	Operating voltage	4 AA alkaline batteries DC 4.5~6.0v
15	Battery life	Approx 12 months
16	Temperture for storage	-25℃~85℃
17	Static current	<10 μA
18	Dynamic current	110mA~180mA

1.5.1 Operating Environment

Indoor Temperature	-8℃-85℃
Outdoor Temperature	-5℃-85℃
Humidity	45%RH-85%RH

2. Operation instruction

2.1 Operation with a mechanical key

2.1.1 Unlocking with a mechanical key

Step 1: Take out cylinder cover with cylinder cover opener. (figure 2-1)



2-1

Step 2: Insert mechanical key into the keyhole, turn the mechanical key (90° anticlockwise if right handed lock, 90° clockwise if left handed lock). (figure 2-2)



2-2

Step 3: Rotate outside handle to unlock the door. (figure 2-3)



2-3

NOTE: Mechanical key can unlock the door at any time.

2.1.2 Closing with a mechanical key

Rotate the mechanical key in the keyhole (90° anticlockwise if right handed lock, 90° clockwise if left handed lock) till the mechanical key is vertical, drawout the mechanical key. The door is locked.(figure 2-4)



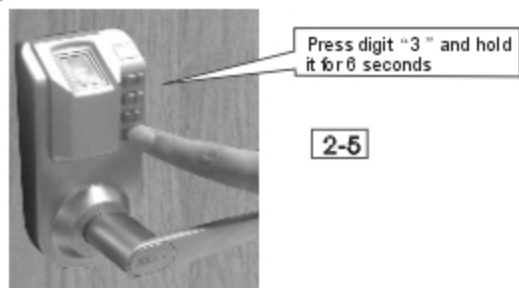
2.2 Wake-up code

2.2.1 What is wake-up code?

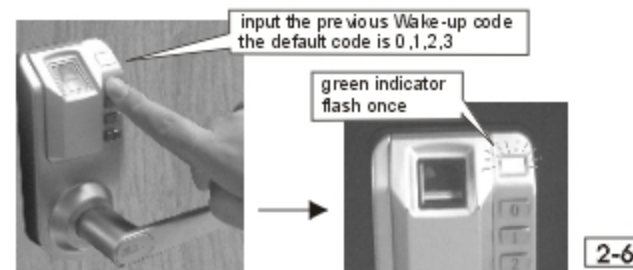
Normally, the fingerprint sensor “sleeps” till it is “waken up” by inputting correct code. Before unlocking the door with fingerprint, one should input valid code to “wake up” the sensor so that it can authenticate the enrolled fingerprints. The default wake-up code is “0,1,2,3”

2.2.2 How to change the wake-up code?

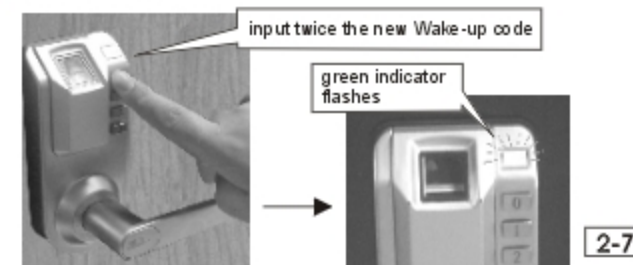
Step 1 : Press digit “3” and hold it for 6 seconds till you hear a beep.(figure2-5)



Step 2 : input the previous Wake-up code continuously (the default code is 0,1,2,3), a long beep is heard and green indicator flash once. (figure 2-6)



Step 3 : Immediately input twice the new Wake-up code continuously. If the new code is twice input correctly, a long beep will be heard and green indicator flashes indicating the success of the operation. (figure 2-7)



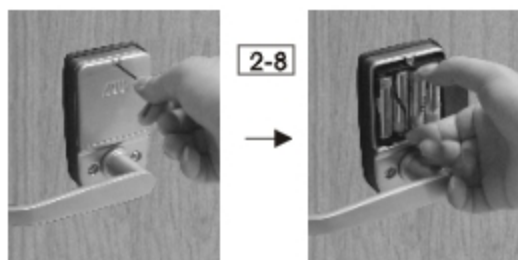
2.2.3 The principle for key combination of wake-up code

The initial digit of Wake-up code must be “0” . For example, you can choose(0,0,0,0) , or (0,2,2,2) etc. But do remember the wake-up code begins with “0” .

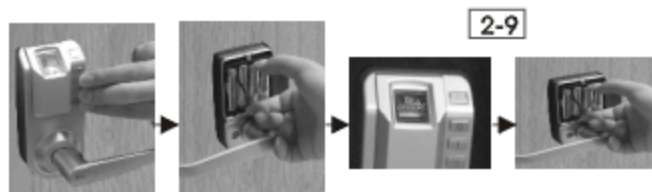
2.2.4 How to restore the default wake-up code?

(0,1,2,3) is the default wake-up code for LA9, if you forgot the new wake-up code you've modified, you can restore the default wake-up code by following below steps:

Step 1. Uncover the battery box with hexagonal screwdriver, take out 1 AA battery (no need to take all the batteries out).(figure 2-8)



Step 2. Press and hold the digit “0” , “1” , “2” , “3” **together** and replace the battery being taken out. You'll hear a beep within 10 seconds, release the digit keys after the red and green indicator flashes, (figure 2-9) **Caution: this operation will delete all enrolled fingerprints saved in the lock. You've got to re-enroll your fingerprint.**



2.3 Unlocking code

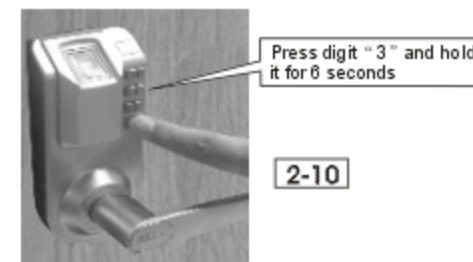
2.3.1 What is unlocking code?

A code with a combination of 11 digits can unlock the door. The default unlocking code is 1,2,3,1,2,3,1,2,3,1,2.

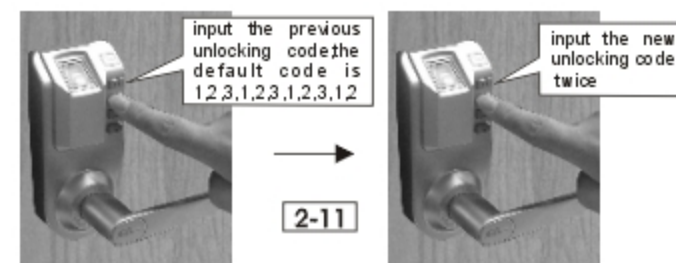
2.3.2 How to change the unlocking code?

Since anybody can unlock the door by inputting unlocking code, you are recommended to change default unlocking code for higher security by following below steps:

Step 1: Press digit “3” and hold it for 6 seconds till you hear a beep. (figure 2-10)



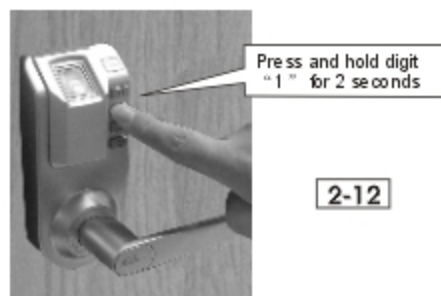
Step 2: After a beep is heard, input the previous unlocking code continuously (the default code is 1,2,3,1,2,3,1,2,3,1,2), a long beep is heard. Immediately input the new unlocking code twice continuously, (figure 2-11) **Caution: For the new unlocking code, the initial digit must be “1” and ends at “2”** . If the new code is twice input correctly, a long beep will be heard and green indicator flashes, which confirms the success of the operation.



2.3.3 The principle for key combination of unlocking code
The initial digit of unlocking code must be “1” and the last digit must be “2” , total 11 digits, you can fill any digits of 0,1,2,3 in the middle 9 digits. For example, you can choose 1,3,3,3,3,3,3,3,3,2.

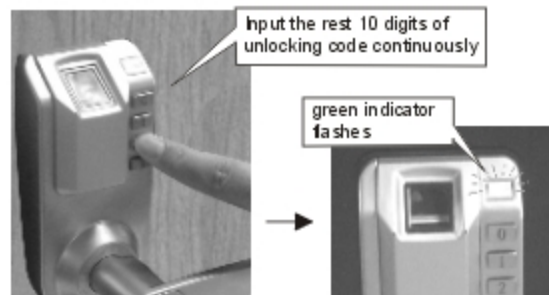
2.3.4 How to restore the default unlocking code?
The same operation with 2.2.4

2.3.5 How to unlock with unlocking code?
Step 1: Press and hold digit “1” for 2 seconds till you hear a beep. (figure 2-12)



2-12

Step 2: Input the rest 10 digits of unlocking code continuously (2,3,1, 2,3,1,2,3,1,2 if default unlocking code) , if the code is input correctly, the green indicator flashes. (figure2-13)



2-13

Step 3: Rotate the handle to unlock the door. 5 seconds later the door will lock automatically. (figure 2-14)



2-14

2.4 Fingerprint Enrollment code

2.4.1 What is fingerprint enrollment code?

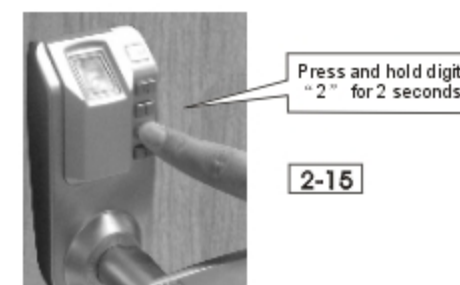
A code with a combination of 11 digits for fingerprint enrollment. The default fingerprint enrollment code is 2,1,3,2,1,3,2,1,3,2,1.

2.4.2 The principle for key combination of fingerprint enrollment code

Its order reverses from unlocking code. For example, if the unlocking code is "1,2,3,1,2,3,1,2,3,1,2" , then the fingerprint enrollment code must be "2,1,3,2,1,3,2,1,3,2,1" . If you changed the unlocking code, the fingerprint enrollment code would be changed automatically.

2.5 How to enroll your fingerprint?

Step 1: Input correct Fingerprint Enrollment Code (Let's take the default enrollment code 21321321321 for example). Press and hold digit "2" for 2 seconds till you hear a beep, and green indicator flashes. (figure 2-15)



2-15

Step 2: Input the rest 10 digits of fingerprint enrollment code continuously (1,3,2,1,3,2,1,3,2,1 if default fingerprint enrollment code) , a beep will be heard, red indicator flashes, then put your finger onto the sensor for enrollment. Move away the finger till you hear 2 beeps, the green indicator flashes, which indicates the success of the enrollment. (figure 2-16)

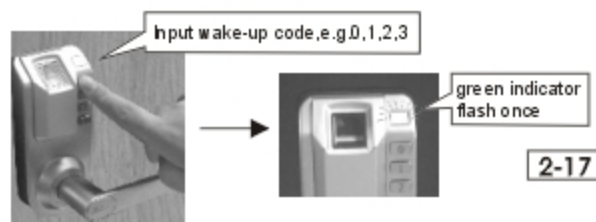


2-16 Step 3: Repeat above two steps for more enrollments.

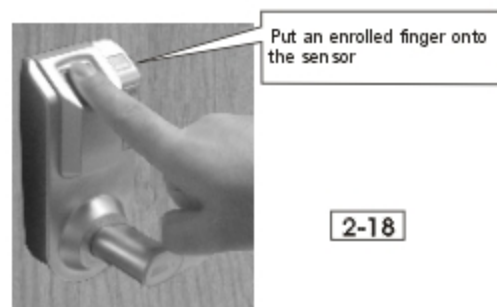
NOTE: To enroll the same finger twice (two templates for one fingerprint) is recommended.

2.6 How to unlock with enrolled fingerprint?

Step 1: Input 0,1,2,3 continuously, a long beep will be heard, green indicator flash once, red sensor indicator flashes. (figure 2-17)



Step 2: Put an enrolled finger onto the sensor immediately while the red sensor indicator is flashing. Motor driving will be heard. During any steps of authentication, if the red indicator flashes after moving away the finger, a second authentication will be needed. Repeat the above steps. (figure 2-18)



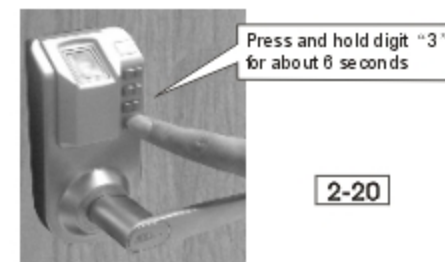
Step 3: Move away the finger and rotate the handle to unlock the door, 5 seconds later the door will be locked again automatically. (figure 2-19)



2-19

2.7 How to delete enrolled fingerprint?

Step 1: Press and hold digit "3" for about 6 seconds till you hear a short beep, as shown in 2-20.



2-20

Step 2 Input fingerprint enrollment code continuously (the default fingerprint enrollment code is 2,1,3,2,1,3,2,1,3,2,1, if you have changed it, then input the new one), a beep will be heard, a second beep will follow in 5 seconds, the green indicator flashes, which shows the successful operation. (Figure 2-21)



Input fingerprint enrollment code continuously (the default fingerprint enrollment code is 2,1,3,2,1,3,2,1,3,2,1)

2-21

CAUTIONG: All the fingerprints enrolled will be deleted.

2.8 Normal open state

2.8.1 What is normal open state?

The lock is in open status all the time. One can rotate the handle and unlock the door at any time. This operation is suitable for office or meeting room.

2.8.2 How to set the door into normal open state?

Step 1: Unlock the door with unlocking code or enrolled fingerprint first refer to 2.3.5 or 2.6;

Step 2: Within 5 seconds after unlocking the door with either fingerprint or unlocking code, press the digit "0" and hold it for 2 seconds, a long beep is heard and release the press. The lock has been set into normal open state. You can open the door by rotating the handle any time till you cancel the setting. (figure 2-22)



Press the digit "0" and hold it for 2 seconds

2-22

2.8.3 How to cancel normal open state?

There are two options:

A Input the valid Wake-up Code and the lock come back to normal close state. Or,

B Input the valid unlocking code and the lock come back to normal close state.

2.9 How to initialize the lock?

Step 1: Open the battery cover with hexagonal screwdriver.

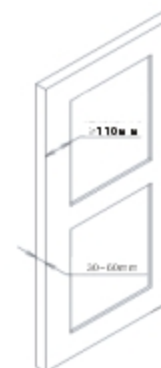
Step 2 Take out 1 of the batteries, then replace the battery again after 3 seconds. Press and hold the digits "0", "1", "2", "3" at the same time while replacing the battery. Release the digits after the red and green indicator flashes and a long beep and a short beep are heard.

CAUTION: The operation will delete all enrolled fingerprints, Please make sure you wanna do that.

3. Installation

3.1 Door requirement

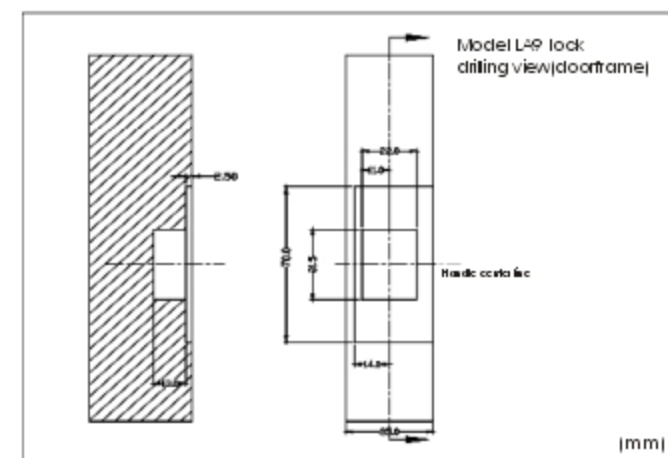
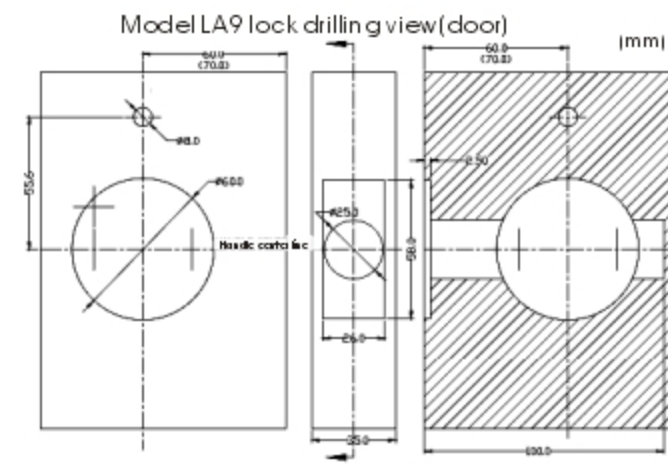
- Wooden door with thickness from 30-60mm;
- If the door surface is decorated, the distance from the decorative edge to the door frame must be above 110mm.



3.2 Tools required when installing

		
Electric drill	Hexagonal screw driver	Measure
		
File	Cut-off knife	Screwdriver
		
Chisel	Pencil	Hammer
		
Auger	Tape measure	Auger bit

3.3 Installation template



3.4 Installation steps

1. Draw handle center line as your request, the recommended height for it is 1m above the ground.



2. Mark the door for drilling hole with a pencil according to installation template.



3. Drill the door from both sides of the door with electric drill.



4. Drill the latch cavity and side plate groove.



5. Put the latch into latch cavity, fix the side plate in the door with screw M4 x 25.



6. Take apart the battery cover with hexagonal screwdriver, take out the batteries.



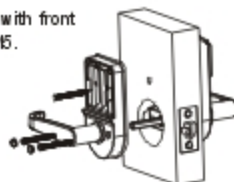
7. Fix front plate on the door.



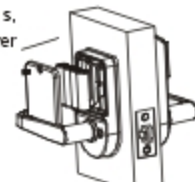
8. Make the square spindle through the hole of latch then into the front plate.



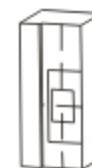
9. Fix back plate with front plate by screw M5.



10. Put in the batteries, close the battery cover with screw M3 x 6.



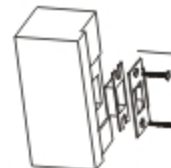
11. Mark position of strike and strike plate with a pencil according to installation template.



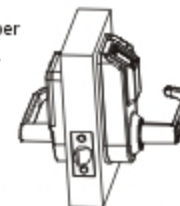
12. Cut grooves for strike and strike plate with a chisel.



13. Fix strike and strike plate in the door frame with screw M4 x 25.

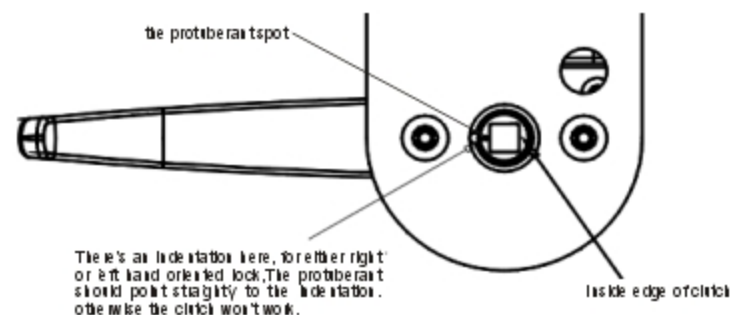


14. Test the lock as per operation instruction.



3.5 Tips for installation

1. Before you fix the front plate on the door, make sure the protuberant spot on the back of front plate is in the position as below



2. After the square spindle was put into the duch of front plate, DO NOT turn the square spindle;
3. Please rotate the inside handle when tighten the screw under the handle to avoid scratching the back finish.

4. Maintenance

4.1 Daily maintenance

- A. Keep away from corrosive matter.
- B. Do not hang anything on the handle.
- C. Keep the sensor surface clean and dry. Wipe it with soft and dry cloth if any stain on it.
- D. When the batteries are running down, the red indicator flashes to alert low voltage. Although you still can unlock the door 20-30 times, you should replace the batteries as soon as possible.
- E. Keep the mechanical keys carefully to prevent from being burglaried.

4.2 Troubleshooting

Problems	Possible reasons	Solution
When you put your enrolled fingerprint onto the sensor to unlock, red indicator flashes and follows two short beeps, door can't be opened.	1. Invalid fingerprint key 2. Your fingerprint has already been deleted.	Unlock the door with a valid fingerprint key.
When you put your valid enrolled fingerprint onto the sensor to unlock, red indicator flashes and follows two short beeps, door can't be opened.	1. Your fingerprint position is quite different from where you first enrolled 2. Bad quality fingerprint.	Put your finger onto the sensor again, try to put it onto where you first enrolled.

5. Aftersales service

5.1 Warranty Policy

1. We warrant ADEL fingerprint lock against defects in material or workmanship under normal use for a period of twelve months from the date we shipped your product.
2. We may repair or replace the defective part(s) or units with a new part(s) or unit or at our option with a refurbished part or unit that is not new but has been functionally tested at no cost to client within the warranty period. In this situation Ideal bears return shipping cost.
3. If repair is required after warranty period, we can do that for client, but cost of parts and return freight will be charged.

5.2 What is not covered by this warranty?

1. Damage caused by improper installation or maintenance.
2. Damage from misuse, abuse, accident (such as dropping), fire, flood, or acts of nature.
3. Damage from service other than an authorized ADEL distributor.
4. Labor, Cost, and shipping charges for the removal and replacement of defective parts beyond the initial 12-month warranty period.
5. Any transportation and shipping charges.

5.3 How to obtain warranty service?

1. If you purchased your lock from Shenzhen Ideal Microelectronics Co., Ltd. online or over the phone: Please contact the manufacturer's service centre by sending email to: adelock@global-sources.com or adelock@vip.163.com. The following info required: A. Lock model number, B. The date of purchase and installation, C. Your detailed address and valid email add., D. A clear description of the problem. E. Your request.
2. If you purchased your lock from Ideal's distributor: Please contact the distributor.
3. If you purchased your lock from another retailer: The retailer's policy applies.

Appendix

A Packing List

No .	Items	Quantity
1	Front plate(including rubber gasket)	1pc
2	Back plate(including rubber gasket)	1pc
3	Single latch(60mm)	1pc
4	Single latch (70mm)	1pc
5	Mechanical keys	2pc
6	Cylinder cover opener	1pc
7	Hexagonal screwdriver	1pc
8	Installation template	1pc
9	Accessories pack	3 sets
10	User manual	1pc
11	Quality certificate	1pc
12	Tools	4pc

B Handle orientation of the lock

Left handed: Standing out of the door, if the hinge is on the left, it is Left handed lock.

Right handed: Standing out of the door, if the hinge is on the right, it is Right handed lock.



~The End~